



## Rolling Stock Acceleration Sensor BT Series

BT series are acceleration sensors with integrated band pass fourth order. Mounted at bogie BT sensor systems detect swing movements across the driving direction of locomotives and trains.



Type	BT standard	BT options
<b>Measuring Range</b>	±1	up to ±2 g
<b>Frequency Range</b> <sup>*1) *2)</sup>	4...7	please select in range Hz@ 2 ... 10 100%
<b>Operating Voltage</b> <sup>*2)</sup>	24 ±20%	110 ±20%, others VDC
<b>Power Consumption</b>	< 100	mA@24V
<b>Output Signal</b> <sup>*1) *2)</sup>	4 ... 20	please select from range 4 ... 20 mA
<b>Output Resistance</b>	500	250, other Ω
<b>Connections</b> <sup>*2)</sup>		
<b>A</b>	Ground	
<b>B</b>	Operation Voltage	
<b>C</b>	free	all combinations possible
<b>D</b>	Signal -	
<b>E</b>	Signal +	
<b>Housing</b>	Aluminium powder-coated DIN EN 1706 EN AC-AISI 12 (Fe)	
<b>Color</b> <sup>*2)</sup>	RAL 9005 black	RAL 7001, RAL7043, other
<b>Impact Resistance</b>	>7 Joule acc. EN 50014	
<b>Protection Class</b>	IP66 acc. EN 60529	

plug **Amphenol** <sup>\*2)</sup>

standard:  
**SJTOORT14-5PNO14**

options:  
SJTOORT14-5SA014  
other on request

$$a = (I_{out} - 4mA) / 16 mA$$

a : acceleration in g  
I<sub>out</sub>: output current

### Order Information:

Art.-Nr. 6203.03-5.01  
BT standard 110VDC

december 2010 – subject to change

<sup>\*1)</sup> selection by integrated band pass filter fourth order

<sup>\*2)</sup> please request your special parameter

valid norms: EN 50125-1 environmental conditions for equipment  
EN 50121-2-3 electromagnetic compatibility (EMC)  
EN 45545-2 fire prevention at rail vehicles  
EN 10204 inspection documents  
and EN 50262, EN 50124, EN 55011, EN 55022, EN 60011-2, EN 50155

